Job Risk Analysis

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Name(s) of Risk Tear P. Cirnigliaro, D. Pas	m Members: sarello, R. Costa, A. Farla	nd, T. Lambertson	Point Valu Paramete				1			2	3		4				5			
Job Title: Replacing	welding pipe in a building dentifier: JRA 21b	; 1005R	Frequency (B)		≤once/year			ar		≤once/month ≤once/week		<u>-</u>	≤once/shift				>once/shift			
Job Description: Welding indoors on a platform Building 1005R			Severity (C)	y	First Aid Only				M	ledical Treatment	Lost Time	Par	tial D	isabili	ty	Ι	Permanent ability			
Training and Procedures List (optional):  Approved by: <i>E. Lessard</i> Date: 8-18-04  Rev. #: 1			Likelihood Impossible (D)					le		Unlikely Possible			Proba	able		Multiple				
Stressors (if applicab	le, please list all):	Welde	on for Revision er asked for char g the initial risk	anges i	n ordesment	er to a	e field	i		ere not captured	Comments:									
					Befo	ore A	dditio	nal Co	ontrols				Aft	er Ad	ditior	nal Controls				
Job Step / Task	Hazard	Control(s)		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		dded to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction		
Apply LOTO to appropriate pipe system	Being struck by an object due to exposure to pressurized fluids/gases	Procedures, training, permits		N	2	1	3	2	12											
Review work area for potential fire hazards	Falls on same level	Proper footwear, housekeeping		N	2	1	3	2	12											
Use platform/scaffold	Falls to lower level	Fall protection		N	2	1	4	4	32	three days ago at a After that review, following controls Perform an engine structural compone protection arrest sy Install scaffolding practicable. Reinf procedures associal ladders on platform be introduced on a reinforced at the w	ention by the welders a welding job near B1005. management added the when welding at heights: being analysis of ents to determine if fall ystems can be used. where necessary and force training and ented with the use of ms. These controls shall a job-by-job basis and be working level via an his JRA with welders and	N	2	1	4	2	16	50%		

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Use	Struck by object	Toe boards, Hard hats	N	2		4	2	16			
platform/scaffold	dropped from above										
Use	Bodily reaction –	Preparing the work area, examining the	N	2	1	4	2	16			
platform/scaffold	injuries resulting from	walking and working surfaces, using proper									
	bending, loss of	lifting equipment, proper footwear, and									
	balance, slipping	working as a team to distribute weight of pipe									
	without falling, over										
	exertion, lifting,										
	pushing, carrying, and										
	working in a tight area										
Bring equipment	Bodily reaction –	Preparing the work area, examining the	N	2	1	3	2	12			
onto platform e.g.	injuries resulting from	walking and working surfaces, using proper									
drill, sawz-all, etc.	bending, loss of	lifting equipment, proper footwear, and									
	balance, slipping	working as a team to distribute weight of pipe									
	without falling, over										
	exertion, lifting,										
	pushing, carrying, and										
	working in a tight area				_	_					
Cut pipe	Bodily reaction –	Preparing the work area, examining the	N	2	1	3	2	12			
mechanically	injuries resulting from	walking and working surfaces, using proper									
	bending, loss of	lifting equipment, proper footwear, and									
	balance, slipping	working as a team to distribute weight of pipe									
	without falling, over										
	exertion, lifting,										
	pushing, carrying, and										
	working in a tight area	***************************************									
Cut pipe	Being struck by an	Hardhat, safety glasses	N	2	1	4	2	16			
mechanically	object such as flying										
	debris	T	<b>N</b> T		1	4		16			
Cut pipe by torch	Welding hazards; e.g.,	Training, use of appropriate PPE, use of	N	2	1	4	2	16			
	heat, UV-IR exposure,	ventilation controls, compressed gas, purge gas									
	noise, electrical, fumes					2		40			
Cut pipe by torch	Bodily reaction –	Preparing the work area, examining the	N	2	1	3	2	48			
	injuries resulting from	walking and working surfaces, using proper									
	bending, loss of	lifting equipment, proper footwear, and									
	balance, slipping	working as a team to distribute weight of pipe									
	without falling, over										
	exertion, lifting,										
	pushing, carrying, and										
T D' ( 0	working in a tight area	D : 4 1 : 3	NT	_	1	2		40			
Lower Pipe to floor	Bodily reaction –	Preparing the work area, examining the	N	2	1	3	2	48			
	injuries resulting from	walking and working surfaces, using proper									
	bending, loss of	lifting equipment, proper footwear, and									
	balance, slipping	working as a team to distribute weight of pipe									
	without falling, over										
	exertion, lifting,										
	pushing, carrying, and										
	working in a tight area					<u> </u>					

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Remove pipe from area	Bodily reaction – injuries resulting from bending, loss of balance, slipping without falling, over exertion, lifting, pushing, carrying, and working in a tight area	Preparing the work area, examining the walking and working surfaces, using proper lifting equipment, proper footwear, and working as a team to distribute weight of pipe	N	2	1	3	2	12				
Remove pipe from area	Falls from same level	Proper footwear, housekeeping	N	2	1	3	2	12				
Prep pipe by cleaning ends mechanically (grinding)	Being struck by an object such as flying debris	Safety glasses, gloves, machine guarding, hearing protection	N	2	1	4	2	16				
Prep pipe by cleaning ends mechanically (grinding)	Being struck against object that results in cuts, scrapes	Gloves, safety glasses, machine guarding, hearing protection	N	2	1	2	2	8				
Prep pipe by cleaning ends chemically (solvents)	Being struck against object that results in cuts, scrapes	Gloves, safety glasses	N	2	1	2	2	8				
Prep pipe by cleaning ends chemically (solvents)	Chemical exposure	Gloves, safety glasses	N	2	1	2	2	16				
Prep replacement pipe on floor. Welding as applicable	Bodily reaction – injuries resulting from bending, loss of balance, slipping without falling, over exertion, lifting, pushing, carrying, and working in a tight area	Preparing the work area, examining the walking and working surfaces, using proper lifting equipment, proper footwear, and working as a team to distribute weight of pipe	N	2	1	3	2	12				
Pre-fab replacement pipe on floor. Welding as applicable	Welding hazards, heat, UV-IR exposure, noise, electrical, fumes	Training, use of appropriate PPE, use of ventilation controls, permits	N	2	1	4	2	16				
Pre-fab replacement pipe on floor, grinding as applicable	Being struck by an object such as flying debris	Gloves, safety glasses, machine guarding, hearing protection	N	2	1	4	2	16				
Pre-fab replacement pipe on floor, grinding as applicable	Being struck against object that results in cuts, scrapes	Gloves, safety glasses, machine guarding, hearing protection	N	2	1	2	2	8				

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Prep replacement	Bodily reaction –	Preparing the work area, examining the	N	2	1	3	2	12						
pipe on floor for	injuries resulting from	walking and working surfaces, using proper												
installation. Lifting	bending, loss of	lifting equipment, proper footwear, and												
and positioning	balance, slipping	working as a team to distribute weight of pipe												
	without falling, over													
	exertion, lifting,													
	pushing, carrying, and													
	working in a tight area													
Install replacement	Bodily reaction –	Preparing the work area, examining the	N	2	1	3	2	12						
pipe using rigging,	injuries resulting from	walking and working surfaces, using proper	11	_	1			12						
and lifting	bending, loss of	lifting equipment, proper footwear, and												
and mining														
	balance, slipping	working as a team to distribute weight of pipe												
	without falling, over													
	exertion, lifting,													
	pushing, carrying, and													
T 11	working in a tight area	YY 11 .	3.7	-	-		-	4.6						
Install replacement	Struck by object	Hardhats	N	2	1	4	2	16						
pipe using rigging,	dropped from above													
and lifting.														
Install replacement	Bodily reaction - loss	Preparing the work area, examining the	N	2	1	3	2	12						
pipe using rigging,	of balance, bending,	walking and working surfaces, using proper												
and lifting.	climbing, tight	lifting equipment, proper footwear, and												
	working area	working as a team to distribute weight of pipe												
Position replacement	Bodily reaction- loss	Preparing the work area, examining the	N	2	1	3	2	12						
pipe by lifting,	of balance, bending,	walking and working surfaces, using proper									, i			
pushing, and pulling.	climbing, tight	lifting equipment, proper footwear, and												
	working area	working as a team to distribute weight of pipe												
Position replacement	Bodily reaction- loss	Preparing the work area, examining the	N	2	1	3	2	12						
pipe by lifting,	of balance, bending,	walking and working surfaces, using proper												
pushing, and pulling.	climbing, tight	lifting equipment, proper footwear, and												
p 4538, 4114 p 41111.8.	working area	working as a team to distribute weight of pipe												
Position replacement		Hardhats	N	2	1	4	2	16						
pipe by lifting,	dropped from above	Tranditats	11	2	1	_		10						
pushing, and pulling	dropped from above													
	Bodily reaction- loss	Preparing the work area, examining the	N	2	1	3	2	12						
Clamp pipe into	1		1N		1	3	2	12						
position and tack	of balance, bending,	walking and working surfaces, using proper												
weld and finish	climbing, tight	lifting equipment, proper footwear, ventilation,												
weld.	working area	HEPA filter, and working as a team to												
01	D 111 1	distribute weight of pipe	3.7	-	-	_	-	1.0						
Clamp pipe into	Bodily reaction- loss	Preparing the work area, examining the	N	2	1	3	2	12						
position and tack	of balance, bending,	walking and working surfaces, using proper												
weld and finish	climbing, tight	lifting equipment, proper footwear, and												
welding	working area	working as a team to distribute weight of pipe												
Clamp pipe into	Welding hazards,	Training, use of appropriate PPE, use of	Y	2	1	4	2	16					_	
position and tack	heat, UV-IR exposure,	ventilation controls, compressed gas, purge gas,												
weld and finish	noise, electrical, fumes	permits												
welding					<u>L</u>	L								
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Clean up work area, e.g. tools, rigging	Bodily reaction- loss of balance, bending, climbing, tight working area	walking and wor	ork area, examining the king surfaces, using proper t, proper footwear, and m	N	2	1	3	2	12										
Clean up work area,	Falls on same level	Proper footwear,	housekeeping	N	2	1	3	2	12										
e.g. tools, rigging etc.																			
Clean up work area	Struck by dropped	Proper footwear,	housekeeping, hardhats	N	2	1	4	2	16							-			
e.g. tools, rigging	objects																		
Further Description of	f Controls Added to Redu	ce Risk:																	
*Risk:	0 to 20	21 to 40				41-60	)				61 to 80			81 or greater					
	Negligible		Acceptable			Moderate					Substantial			Intolerable					